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Multidimensional projections for the visual exploration of multimedia data

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PROPOSITIONS

accompanying the PhD thesis

MULTIDIMENSIONAL PROJECTIONS FOR THE VISUAL EXPLORATION OF MULTIMEDIA DATA

by

DANILO BARBOSA COIMBRA

1. Multidimensional projections errors are inevitable for any multidimensional projection technique and is very likely that this will stay so in the future.
2. Interactive exploratory tools can significantly facilitate the interpretation of multidimensional projections and their errors.
3. 3D and 2D explanatory tools can help the user to understand 3D projections, yielded by 3D point clouds.
4. Distance-based projection errors can help the user decide how reliable a projection is concerning the original data.
5. Control points is a feature that lets users improve the semantics of a projection.
6. Videoplayer-like summarization helps the user identify the main events and their importance in a soccer match.
7. The eyes can help us to build dreams, but we do not need them to enjoy those dreams, do we?
8. Visualization can also be used to simplify real problems, in real lives.
9. Life is not a matter of to live to be happy, we need to be happy to live.